

OIPR #4  
8/22/2001

Serial Number: 09/978,576

CRF Processing Date: 8/22/2001  
Edited by: [Signature]  
Verified by: [Signature] (STIC stat)

- Changed a file from non-ASCII to ASCII **ENTERED**
- Changed the margins in cases where the sequence text was "wrapped" down to the next line.
- Edited a formal error in the Current Application Data section, specifically:
- Edited the Current Application Data section with the actual current number. The number inputted by the applicant was  the prior application data; or  other \_\_\_\_\_
- Added the mandatory heading and subheadings for "Current Application Data".
- Edited the "Number of Sequences" field. The applicant spelled out a number instead of using an integer.
- Changed the spelling of a mandatory field (the headings or subheadings), specifically:
- Corrected the SEQ ID NO when obviously incorrect. The sequence numbers that were edited were:
- Inserted or corrected a nucleic number at the end of a nucleic line. SEQ ID NO's edited:
- Corrected subheading placement. All responses must be on the same line as each subheading. If the applicant placed a response below the subheading, this was moved to its appropriate place.
- Inserted colons after headings/subheadings. Headings edited included: .
- Deleted extra, invalid, headings used by an applicant, specifically:
- Deleted:  non-ASCII "garbage" at the beginning/end of files;  secretary initials/filename at end of file;  
 page numbers throughout text;  other invalid text, such as \_\_\_\_\_
- Inserted mandatory headings, specifically:
- Corrected an obvious error in the response, specifically:
- Edited identifiers where upper case is used but lower case is required, or vice versa.
- Corrected an error in the Number of Sequences field, specifically:
- A "Hard Page Break" code was inserted by the applicant. All occurrences had to be deleted.
- Deleted ending stop codon in amino acid sequences and adjusted the "(A)Length:" field accordingly (error due to a PatentIn bug). Sequences corrected:
- Other: inserted hard return after Seq 2

**RAW SEQUENCE LISTING**  
**PATENT APPLICATION: US/09/778,516**

DATE: 08/22/2001  
TIME: 18:14:43

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Output Set: N:\CRF3\08222001\1778516.raw

4 <110> APPLICANT: Lo, Wei-Yu  
5 Lo, Ming Ching  
6 Liau, Pei-Ru  
8 <120> TITLE OF INVENTION: LAC SHUTTLE VECTORS  
11 <130> FILE REFERENCE: 12875-002001  
13 <140> CURRENT APPLICATION NUMBER: 09/778,516  
14 <141> CURRENT FILING DATE: 2001-02-07  
16 <150> PRIOR APPLICATION NUMBER: TW 89110235  
17 <151> PRIOR FILING DATE: 2000-05-26  
19 <160> NUMBER OF SEQ ID NOS: 6  
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
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VERIFICATION SUMMARY  
PATENT APPLICATION: US/09/778,516

DATE: 08/22/2001  
TIME: 18:14:44

Input Set : A:\Pto.amc  
Output Set: N:\CRF3\08222001\I778516.raw

OIPE

RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/778,516

DATE: 07/25/2001  
TIME: 13:06:40

Input Set : A:\12875-002001.TXT  
Output Set: N:\CRF3\07252001\I778516.raw

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5      Lo, Ming Ching
6      Liau, Pei-Ru
8 <120> TITLE OF INVENTION: LAC SHUTTLE VECTORS
11 <130> FILE REFERENCE: 12875-002001
13 <140> CURRENT APPLICATION NUMBER: 09/778,516
14 <141> CURRENT FILING DATE: 2001-02-07
16 <150> PRIOR APPLICATION NUMBER: TW 89110235
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19 <160> NUMBER OF SEQ ID NOS: 6
21 <170> SOFTWARE: FastSEQ for Windows Version 4.0

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Does Not Comply  
Corrected Diskette Needed

## ERRORED SEQUENCES

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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/778,516

DATE: 07/25/2001

TIME: 13:06:40

Input Set : A:\12875-002001.TXT

Output Set: N:\CRF3\07252001\I778516.raw

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206	caaataaaaat aattttgtt attaaaatcc catttgcga caacttcttc cgcaagttcc	2160
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RAW SEQUENCE LISTING  
PATENT APPLICATION: US/09/778,516

DATE: 07/25/2001  
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## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/778,516

DATE: 07/25/2001

TIME: 13:06:40

Input Set : A:\12875-002001.TXT

Output Set: N:\CRF3\07252001\I778516.raw

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307 <211> LENGTH: 30  
308 <212> TYPE: DNA  
309 <213> ORGANISM: Artificial Sequence  
311 <220> FEATURE:  
312 <223> OTHER INFORMATION: oligonucleotide for PCR  
W--> 314 <210> SEQ ID NO:  
E--> 314 <400> SEQUENCE: 3  
315 aagctcatga ttggcagcca gtctccgggc 30  
E--> 317 <210> SEQ ID NO: 4

**VERIFICATION SUMMARY**

PATENT APPLICATION: US/09/778,516

DATE: 07/25/2001

TIME: 13:06:41

Input Set : A:\12875-002001.TXT

Output Set: N:\CRF3\07252001\I778516.raw

L:306 M:254 E: No. of Bases conflict, LENGTH:Input:3 Counted:8117 SEQ:2  
L:306 M:320 E: (1) Wrong Nucleic Acid Designator, NUMBER OF INVALID KEYS:9  
L:306 M:252 E: No. of Seq. differs, <211>LENGTH:Input:8115 Found:8117 SEQ:2  
L:314 M:282 W: Numeric Field Identifier Missing, <210> is required.  
L:314 M:212 E: (34) Invalid or duplicate Sequence ID Number, SEQUENCE ID NOS:2 differs:3  
L:317 M:214 E: (33) Seq.# missing, SEQ ID NO:3